

Providing a semiconductor wafer with a plurality of device units.

The units have an active surface protected by an overcoat in which windows are exposing the metal contact pads. A patterned barrier metal is on the pad metal in the windows, on the barrier is one metal stud (preferably copperor nickel), wich has an onter surface (preferably palladina) suitable to form metallurpical bonds without melbing

froviding a lead frame for the whole water, having a plurality of segment groups (preferably nickel-plated copper), each group suitable for one device unit; Each segment has first and second ends covered by a solderable metal (preferably pulladium)

304 - Fracing solder paste (preferably tin artinally with flux) on each first segment end

Aligning leadframe with wafer so that each paste-covered segment end is aligned with the corresponding metal stad of the respective device unit

Counciting the least frame to the wafer by contacting the metal stads and the first request and and reflowing the solder paste

Encapsulating the water, in a molding compound so that the 30? Levice units and first sequent ends are covered, while the second sequent ends remain exposed

308 ~ Separating the encapsulated we for into individual encapsulated device units

309~ Stop

F16.3

408 ~ Stop

F16. 4





